University of British Columbia

Organic Nutrient Management Resources

UBC Research

- Sustainable Agricultural Landscapes Lab
  http://sal-lab.landfood.ubc.ca/

- Organic Vegetable Nutrient Management Study
  http://sal-lab.landfood.ubc.ca/projects/organic-vegetable-nutrient-management/

Fertilizer Values

- Fertilizing with Manure and Other Organic Amendments (PNW Publication)

Cover Crops

- Managing Cover Crops Profitably (SARE)
- Estimating Plant-Available Nitrogen Release from Cover Crops (PNW Publication)

Nutrient Management

- Nutrient Management for Sustainable Vegetable Cropping Systems in Western Oregon (OSU Extension)
- Soil Fertility in Organic Systems – A guide for gardeners and small acreage farmers (PNW Publication)
- BC Ministry of Agriculture Nutrient Management Calculator
- Cover Crop and Fertilizer Calculator (OSU Extension)
- Practical Nutrient Management for Organic Vegetable Crops: *Or how to stay in business while caring for the soil as a living system*

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Agriculture and Agri-Food Canada

organic SCIENCE CLUSTER 3

Table of all composts sampled in Spring 2018 for the Organic Vegetable Nutrient Management Project at UBC.

(Reg. = Region, LFV = Fraser Valley, PV = Pemberton, ISL = Vancouver Island, OM = Organic Matter, NH4 = Ammonium, NO3 = Nitrate)

										"Total" Element Content by Microwave Digestion / ICP												
Reg.	Compost	pH	C:N	EC	MC	OM	Total N	NH4	NO3	Al	B	Cu	Fe	Mn	Mo	Na	Zn	Ca	K	Mg	P	S
					---------- % ----------			---------- mg / Kg ----------										---------- % ----------				
	Food Scrap Based Composts																					
LFV	Net Zero	7.1	11	6.1	63.0	63	2.8	1,761	291	10,104	26	44	10,571	321	2.4	2,993	147	3.7	1.2	0.5	0.6	0.7
LFV	Premium Soils	7.5	11	1.7	25.9	71	3.3	323	13	7,374	24	45	6,076	242	1.7	1,618	138	6.0	0.4	0.4	0.7	0.4
LFV	Food Scrap Compost	7.4	15	0.7	50.1	42	1.4	6	73	14,826	23	103	14,849	419	2.0	721	223	2.8	0.4	0.5	0.3	0.2
PV	Sea to Sky Soils	7.6	12	5.8	48.4	32	1.3	556	158	11,652	13	59	12,932	337	0.8	1,814	131	2.8	0.7	0.5	0.4	0.2
PV	Sea to Sky Soils	7.6	11	3.0	50.1	41	1.8	433	335	14,516	15	66	13,941	369	1.0	2,029	142	2.9	0.8	0.6	0.5	0.2
PV	Sea to Sky Soils	6.8	14	4.1	38.8	49	1.7	1,853	0	13,794	14	58	13,228	340	1.0	2,416	529	2.8	0.9	0.5	0.5	0.2
PV	Sea to Sky Soils	7.2	11	4.7	51.2	57	2.6	82	890	6,342	22	43	7,626	251	1.6	2,330	121	11.6	0.8	0.4	0.7	0.4
	Poultry Litter Composts																					
LFV	Rockhill Compost	6.0	10	0.2	45.6	86	4.5	7,851	2	753	31	302	1,132	544	3.0	3,050	477	4.0	2.0	0.6	1.8	0.8
LFV	Composted Broiler Litter	6.0	12	21.4	35.1	92	3.9	20,905	74	1,120	33	319	1,489	493	5.9	4,440	495	2.0	2.3	0.5	1.5	0.6
LFV	Poultry Litter	6.9	19	8.3	22.4	79	2.1	6,522	0	4,550	20	227	5,041	447	5.1	2,783	382	2.3	1.4	0.6	1.1	0.4
PV	Nature's Nutrients	6.5	13	5.2	65.4	75	2.9	306	1,728	1,323	25	342	1,907	994	3.4	1,487	822	9.0	0.6	0.8	3.4	0.6
PV	Nature's Nutrients	5.9	9	17.2	52.3	82	4.4	15,299	7	700	29	301	1,280	551	3.8	4,131	521	3.8	2.1	0.6	2.3	0.7
	Steer/Beef & Horse Manure Composts																					
ISL	Composted Steer Manure	7.1	20	1.8	57.2	45	1.1	1	189	26,943	12	102	29,686	630	0.9	923	156	2.9	0.4	1.4	0.4	0.3
ISL	Beef Manure	7.1	18	2.0	78.2	93	2.7	15	111	9,707	16	38	8,371	686	1.6	1,723	141	1.4	0.5	0.6	0.6	0.4
ISL	Horse Manure (#2)	7.8	20	2.0	51.2	31	0.8	337	132	20,482	15	46	17,528	562	0.2	1,509	123	1.6	0.8	0.7	0.3	0.2
ISL	Horse Manure	7.9	39	4.0	64.6	78	1.0	1,394	40	8,576	12	17	7,458	317	1.2	1,438	67	1.2	1.1	0.4	0.3	0.2
	Fish-Based Composts																					
ISL	Sea Soil	5.0	31	0.9	54.2	71	1.1	1	77	11,996	8	46	14,700	642	0.8	1,080	82	2.3	0.1	0.5	0.3	0.2
ISL	Earth Bank Fish Compost	4.9	14	3.9	53.2	45	1.6	1,062	878	17,344	9	47	18,135	446	0.5	2,129	232	1.7	0.4	0.5	0.6	0.2
	Pork Manure Composts																					
LFV	Gelderman Farms Compost	7.0	24	9.0	32.5	59	1.2	9	756	15,249	12	55	12,553	355	3.3	2,782	284	2.3	1.5	0.6	0.7	0.3
	Other																					
LFV	50/50: Composted Broiler Litter & Food Scraps	7.4	12	3.7	52.3	58	2.3	2,659	37	9,439	25	168	9,907	440	6.9	3,124	284	3.2	1.0	0.6	0.9	0.4
	On-Farm Composts																					
ISL	On-Farm	6.1	12	0.2	31.8	12	0.5	0	0	41,213	9	74	38,483	1,068	1.9	548	122	1.4	0.2	0.9	0.1	0.1
ISL	On-Farm	6.7	15	8.8	61.4	60	2.0	1,408	1,723	12,749	20	75	10,341	708	2.1	2,876	418	5.2	1.5	0.7	1.1	0.4
ISL	On-Farm	7.2	16	5.8	53.7	36	1.2	10	799	24,133	17	62	23,067	751	0.5	2,109	151	2.4	1.0	0.7	0.4	0.3
PV	On-Farm	6.8	13	1.5	44.5	17	0.6	1	104	14,042	6	32	15,852	466	2.2	1,321	75	1.1	0.5	0.6	0.2	0.1